

PROCEEDINGS  
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BIOLOGICAL SOCIETY OF WASHINGTON

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THREE NEW SUBSPECIES OF GRASSHOPPER MICE.

BY N. HOLLISTER.

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Three hitherto unnamed forms of grasshopper mice, in the collection of the United States National Museum, are described below.

***Onychomys torridus clarus* subsp. nov.**

*Type* from Keeler, Inyo County, California. U. S. National Museum (Biological Survey Collection), No.  $\frac{25453}{32867}$ , skin and skull of adult ♂ (teeth considerably worn). Collected December 30, 1890, by Vernon Bailey. Orig. No. 2314.

*Diagnosis*.—Like *Onychomys torridus longicaudus*, but clearer and brighter colored, with very little dark streaking above. Resembling *O. t. pulcher*, but much more intensely pinkish-cinnamon. Skull as in *longicaudus*, but with anterior palatine foramina averaging longer, reaching backward fully to line of fronts of first molars.

*Color* of adult in full winter coat: upperparts bright pinkish-cinnamon, palest on nose and head and most intense and glossy on lower back and rump, with very little or no darker admixture from the hair tips. Underfur dark neutral-gray; hairs with subapical band of buff, tipped with deep cinnamon. Ears very thinly haired, narrowly rimmed with brown; tufts at bases creamy-white, comparatively inconspicuous. Nose, cheeks, lower sides, limbs, hands, feet, and underparts, white, the underfur narrowly neutral-gray. Tail whitish, with narrow, indistinct stripe of grayish-brown along upper side for two-thirds its length.

*Measurements of type*.—Total length, 143 mm.; tail vertebrae, 51; hind foot, 20.5; ear from notch in dry skin, 15.7. Skull: Condylbasal length, 23.3; zygomatic breadth, 13.2; breadth of braincase, 11.6; maxillary tooth row, 3.7.

***Onychomys leucogaster capitulatus* subsp. nov.**

*Type* from lower end of Prospect Valley, 4500 feet, Hualpai Indian Reservation, Grand Canyon, Arizona. U. S. National Museum (Biological Survey Collection), No. 202612, skin and skull of adult ♂ (teeth

moderately worn). Collected September 26, 1913, by E. A. Goldman. Orig. No. 22234.

*Diagnosis*.—Coloration much like that of *Onychomys leucogaster ruidosæ*; but size less, and skull considerably smaller and weaker. Darker than *O. l. melanophrys*; lighter, more reddish-brown, than *O. l. fuliginosus*.

*Color*.—The color, in all pelages, closely resembles that of *O. l. ruidosæ*.

*Measurements of type*.—Total length, 142; tail vertebrae, 43; hind foot, 21; ear from notch in dry skin, 14.6. Skull: Condylbasal length, 25.1; zygomatic breadth, 14; breadth of braincase, 13.0; maxillary tooth row, 4.3.

***Onychomys leucogaster breviauritus* subsp. nov.**

*Type* from Fort Reno, Oklahoma. U. S. National Museum, No.  $\frac{19141}{34872}$ , skin and skull of adult ♀ (teeth moderately worn). Collected February 16, 1890, by Dr. J. C. Merrill. Orig. No. 18.

*Diagnosis*.—Most like *Onychomys leucogaster longipes*, but darker and richer colored, with shorter tail, smaller hind foot, and smaller ears.

*Color* of adult in full winter pelage: Head and back a rich blackish-brown, the ground color pinkish-cinnamon, the overlying hairs with long blackish tips which streak and darken the ground color; cheeks and sides with less of the dark streaking, the hips and lower rump almost pure pinkish-cinnamon. Center of nose gray; cinnamon spots at base of whiskers, between the gray of nose and white of lips. Ear tufts cinnamon-buff; tail grayish-brown above to near tip, sharply bicolor, the underside and tip white. Arms, hands, lower legs, and entire underparts white, with dark gray underfur everywhere except on chin.

*Measurements of type*.—Total length, 164; tail vertebrae, 42; hind foot, 21; ear from notch in dry skin, 13.2. Skull: Condylbasal length, 27.4; zygomatic breadth, 15.1; breadth of braincase, 12.5; maxillary tooth row, 4.7. Average measurement of ear from notch in dry skin in seven adults is 12.8; in twelve adults of *O. l. longipes*, 16.1.